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CENTRAL FAX CENTERSerial No. 10/583,673
Reply to Office Action Dated 1/27/10PF030182
Customer No. 24498

JUL 27 2010

LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) In a computer device, a Method ~~method~~ for creating a saliency map of an image wherein it comprises the steps of :
 - Projection of said image according to the luminance component and if said image is a color image, according to the luminance component and according to the chrominance components,
 - Perceptual sub-bands decomposition, by the computer device, of said components according to the visibility threshold of a human eye,
 - Extraction of the salient elements of the sub-bands related to the luminance component,
 - Contour enhancement of said salient elements in each sub-band related to the luminance component,
 - Calculation, by the computer device, of a saliency map from the contour enhancement, for each sub-band related to the luminance component.
 - Creation of the saliency map as a function of the saliency maps obtained for each sub-band.
2. (Currently Amended) Method according to claim 1 wherein it comprises, further to the perceptual sub-bands decomposition by the computer device,
 - a step of achromatic contrast sensitivity function for the luminance component and if said image is a color image,
 - a step of chromatic sensitivity function for the chromatic components.
3. (Previously Presented) Method according to claim 2 wherein it comprises a step of visual masking, further to the step of contrast sensitivity function, for each sub-band of the luminance component and of the chromatic components.

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4. (Previously Presented) Method according to claim 3 wherein, when said image is a color image, it comprises a step of chromatic reinforcement of the luminance sub-bands.

5. (Currently Amended) Method according to claim 1 wherein the perceptual sub-bands decomposition, by the computer, is obtained by carving-up the frequency domain both in spatial radial frequency and orientation.

6. (Previously Presented) Method according to claim 5 wherein the perceptual decomposition of the luminance (A) component leads to 17 psycho visual sub-bands distributed on four crowns.

7. (Previously Presented) Method according to claim 5 wherein the perceptual decomposition of the chromatic components leads to 5 psycho visual sub-bands distributed on two crowns for each chromatic component.

8. (Previously Presented) Method according to claim 4 wherein the chromatic reinforcement of the luminance component is done on the sub-bands of the second crown and based on the sub-bands of the first crown of the chromatic components.

Claim 9 (Cancelled)

10. (Currently Amended) A computer readable medium encoded with a computer program, that when executed by a computer devices comprising comprises the steps of:

- Projection of said image according to the luminance component and if said image is a color image, according to the luminance component and according to the chrominance components,
- Perceptual sub-bands decomposition, by the computer device of said components according to the visibility threshold of a human eye,

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- Extraction of the salient elements of the sub-bands related to the luminance component,
- Contour enhancement of said salient elements in each sub-band related to the luminance component,
- Calculation, by the computer device, of a saliency map from the contour enhancement, for each sub-band related to the luminance component.
- Creation of the saliency map as a function of the saliency maps obtained for each sub-band.